

TITLE

GREY CAST IRON PULLEY

**A PROJECT REPORT PRESENTED IN PARTIAL FULFILMENT OF
THE REQUIREMENT FOR THE AWARD OF DIPLOMA IN
MECHANICAL ENGINEERING OF THE MARA INSTITUTE OF
TECHNOLOGY**

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INTRODUCTION

Nowday,casting is a very important process in manufacturing production.Casting is made from metal which is melted, poured into mould,cooled,and solidified,shakeout,finishing and cleaning.To make casting the processes of melting metal,moulding,pouring,shakeout,and cleaning must be carried out.Various are used to melted metal.Casting are used because they are many advantages.Some of the advantages of casting were :

- the complex shape product that can't be made from another process like machining,forging and welding can be made by casting.
- there are no wasted material than machining process.
- it was a cheepers process than others.
- it was suitable for mass product,e.g.for automotive industry.
- steel scrap can be reused.

Our project consist of Product Developement Of Gray Cast Iron Pulley(wood lathe machine).For our casting process,we used sand casting.The sample of the pulley are taken from wood lathe machine.The material for our product is grey cast iron(grade;FC 250).

We used a wooden pattern. Our project work was carried out for a period of one month.

CONTENTS

- 1.0 PREFACE
 - TITLE
 - ACKNOWLEDGEMENT
 - INTRODUCTION
- 2.0 BASIC FOUNDRY TECHNOLOGY
 - 2.01 CASTING
 - 2.1 CASTING DESIGN
 - 2.2 PATTERN MAKING
 - 2.2.1 DETERMINATION OF COPE, DRAG AND PARTING SURFACE
 - 2.2.2 PATTERN DRAFT
 - 2.2.3 PATTERN MAKING SAFETY
 - 2.3 GATING SYSTEM
 - 2.3.1 RISER
 - 2.3.2 COREBOX
 - 2.4 MOULDING
 - 2.4.1 KIND OF MOULD
 - 2.4.2 GREEN SAND MOULD
 - 2.4.3 THE ADDITION FOR GREEN SAND
 - 2.5 MELTING
 - 2.6 FINISHING
 - 2.6.1 SAND REMOVAL OF FLASK
 - 2.6.2 PROCESS OF FINISHING
 - 2.6.3 MACHINING
 - 2.7 INSPECTION OF CASTING
 - 2.8 MATERIAL TEST
 - 2.8.1 HARDNESS TEST
- 3.0 PRODUCTION DEVELOPMENT OF A GREY CAST IRON PULLEY
 - 3.1 DESIGN SPECIFICATION
 - 3.2 CASTING DESIGN GREY CAST IRON
 - 3.3 PATTERN MAKING
 - 3.31 COREBOX MAKING
 - 3.32 GATING SYSTEM

3.33 PATTERN PLATE MAKING

3.4 MOULDING

3.5 MELTING AND POURING OF CAST IRON

3.51 OPERATION AT LOW FREQUENCY INDUCTION FURNACE

3.6 FINISHING

3.7 INSPECTION OF CASTING

3.8 CASTING DEFECT

3.9 SAFETY AND RULES

3.91 PATTERN MAKING

3.92 MOULDING

3.93 MELTING AND POURING

3.94 FINISHING

3.95 TEST AND INSPECTION

4.0 CONCLUSION

5.0 REFERENCES